

RWA-80016

When ordering replace "___" with connector type.

Mechanical specifications

Length	2450 mm	96.5 in
Width	285 mm	11.2 in
Depth	150 mm	5.9 in
Depth with z-bracket	190 mm	7.5 in
4) Weight	14 kg	31.0 lbs
Wind Area		
Fore/Aft	0.70 m ²	7.51 ft ²
Side	0.37 m ²	3.96 ft ²
Rated Wind Velocity (Safety factor 2.0)		
	>188 km/hr	>117 mph
Wind Load @ 100 mph (161 km/hr)		
Fore/Aft	1160 N	238.2 lbs
Side	632 N	142.0 lbs

Antenna consisting of aluminum alloy with brass feedlines covered by a UV safe fiberglass radome.

Mounting and Downtilting

Mounting brackets attach to a pipe diameter of Ø50-160 mm (2.0-6.3 in).

Mounting bracket kit #36210002

Downtilt bracket kit #36114003

Electrical specifications

Frequency Range	806-960 MHz
Impedance	50Ω
3) Connector(s)	NE or E-DIN 1 port / bottom or center
1) VSWR	≤ 1.4:1
Polarization	Vertical
1) Gain	16 dBd
2) Power Rating	500 W
1) Half Power Angle	
H-Plane	78°
E-Plane	7°
1) Electrical Downtilt	1.25°
1) Null Fill	5%
Lightning Protection	Direct Ground

1) Typical values.

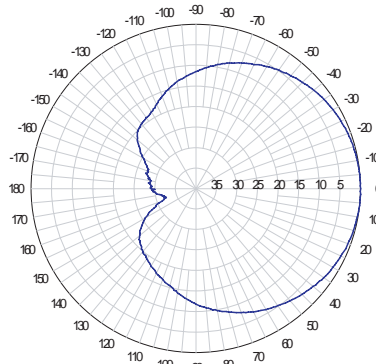
2) Power rating limited by connector only.

3) NE indicates an elongated N connector.
E-DIN indicates an elongated DIN connector.

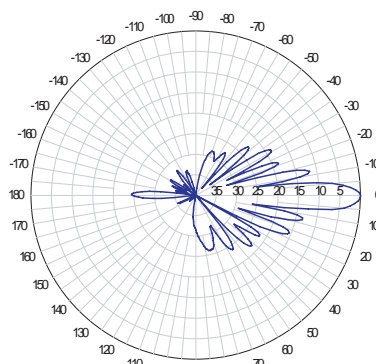
4) The antenna weight listed above does not include the bracket weight.

Improvements to mechanical and/or electrical performance of the antenna may be made without notice.

Radiation pattern¹⁾



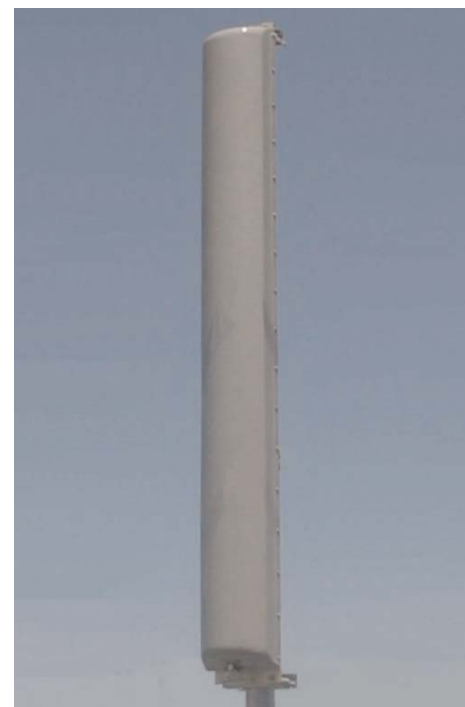
Horizontal



Vertical

Radiation patterns for all antennas are measured with the antenna mounted on a fiberglass pole.

Mounting on a metal pole will typically improve the Front-to-Back ratio.



**Amphenol Antel's
Exclusive 3T (True
Transmission Line
Technology)
Antenna Design:**

- A 1¼" four-channel extrusion running the entire length of the antenna for unmatched strength and rigidity.
- Durable brass feedline design that eliminates the need for conventional solder joints in the signal path.
- A non-collinear system with access to every radiating element for broad bandwidth and superior performance.
- Air as insulation for virtually no internal signal loss.

This Amphenol Antel antenna is under a five-year limited warranty for repair or replacement.

Antenna can be ordered with bottom-fed or center-fed connector.

Bottom-fed: RWA-80016 + (NE or E-DIN)

Center-fed: RWA-80016CF + (NE or E-DIN)

806-960 MHz

